# **CCR Ninth Annual CCR Fellows and Young Investigators Colloquium**

March 18 ~ 20, 2009, Hershey Lodge in Hershey, PA

#### **PROGRAM**

Wednesday, March 18, 2009	
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2:00 p.m. Registration and Mentored Dinner Sign-up (Great Lobby)

Poster Session I Setup (Red Room)

**3:00 p.m.** Plenary Session I (White Room)

Moderators: Tim Chan, Ph.D. and Edward Wright, Ph.D.

**Opening Remarks and CCR-FYI Overview** 

Tim Chan, Ph.D., Chair, CCR FYI Steering Committee

**Felcom Overview** 

Thomas Paul, Ph.D., Laboratory of Cellular Oncology, CCR, NCI

**Update on the National Postdoctoral Association** 

Stacy Gelhaus, Ph.D., University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania

3:45 p.m. Opening Remarks from the CCR Office of Training and Education

Jonathan Wiest, Ph.D., Associate Director, Office of Training and Education, CCR, NCI

4.00 p.m. CCR Office of the Director Address

Robert Wiltrout, Ph.D., Director, Center for Cancer Research, NCI

4:30 p.m. Keynote Speaker I: "Insights from a New Lung Cancer Stem Cell Assay" (White Room)

Carla Kim, PhD., Assistant Professor, Department of Genetics, Harvard Medical School Moderators: Bríd Ryan, Ph.D., M.P.H. and Paul Hynes, Ph.D.

**5:30 p.m. Mentored and General Dinner** (*Nigerian Room*)

7:00 p.m. Keynote Speaker II: "Cancer Metabolism: Back to the Future" (White Room)

Tak Wah Mak, Ph.D., Director, The Campbell Family Institute for Breast Cancer Research, Princess Margaret Hospital, University of Toronto, Ontario, Canada

Moderators: Tim Chan, Ph.D. and Ram Savan, Ph.D.

8:00 p.m. Highlight Presentation: "DEAR TALULA: An Intimate Portrait of a Cancer Survivor"

Lori Benson, Breast Cancer Survivor

8:30 p.m. Poster Session I (Red Room)

Pharmacology and Chemistry

Carcinogenesis, Cancer Models and Metastasis

**Epidemiology and Cancer Prevention** 

Cancer Stem Cells, Molecular and Cell Biology

Career Fair (Red Room)

**Informal Mixer** (*Great Lobby*)

Mentored Meal Sign-up (Registration Desk)

# Thursday, March 19, 2009

7:00 a.m. Continental Breakfast (Great Lobby)

**Registration Open** 

Poster Session II Setup (Red Room)

8:00 a.m. Keynote Speaker III: "Regulation via Small RNAs: A Bacterial Perspective" (White Room)

Susan Gottesman, Ph.D., Co-Chief, Laboratory of Molecular Biology, CCR, NCI

Moderators: Matthew Hall, Ph.D. and Krista Zanetti, Ph.D., M.P.H.

9:00 a.m. **Break** 

9:30 a.m. Concurrent Workshops I

"Taking Control of Your Future: Getting the Most out of Your Postdoc" (White Room)

Susan Olivo-Marston, Ph.D., M.P.H., Cancer Research Training Award Fellow, Laboratory of Human Carcinogenesis, CCR, NCI

Barbara Vonderhaar, Ph.D., Laboratory Chief, Mammary Biology and Tumorigenesis Laboratory, CCR, NCI

Jonathan Wiest, Ph.D., Associate Director, Office of Training and Education, OD, CCR, NCI Moderators: Matthew Hall, Ph.D. and Edward Wright, Ph.D.

"Moving to Industry" (Crystal Room A)

Pamela Klein, M.D., Independent Drug Development Consultant, San Mateo, California Lauren Goldie, Ph.D., Scientist, Therapeutic Target Discovery, Regeneron, Tarrytown, New York

Matthew Sammons, Head of Recruitment for Research and Development, Quality Services, Regulatory and Clinical Affairs, Qiagen, Germantown, Maryland

Michele Gunsior, Principal Investigator, Covance Laboratories, Inc., Chantilly, Virginia Moderators: Raed Samara, Ph.D. and Christian Capitini, M.D.

11:30 a.m. Mentored and General Lunch (Nigerian Room)

1:00 p.m. Concurrent Oral Presentations I (order of presenters is subject to change)

Pharmacology and Chemistry (Magnolia AB)

Kyle Brimacombe, Laboratory of Cell Biology, CCR, NCI

High-throughput Identification of P-gp Substrates and Selective Agents Using a Dual-Fluorescent Cell Line System

Shalu Gupta, Laboratory of Molecular Pharmacology, CCR, NCI

Development of Cell-based Assay to Test the Tyrosyl-DNA Phosphodiesterase (TDP1)-Specific Inhibitors along with Top1 Inhibitors for Cancer Therapy

Rahul Nandurdikar, Laboratory of Comparative Carcinogenesis, CCR, NCI

Targeting Nitric Oxide to Macrophages for Therapeutic Benefit

Carole Sourbier, Urology Oncology Branch, CCR, NCI

A New Targeted Therapy for Hereditary Leiomyomatosis and Renal Cell Carcinoma: Increasing Reactive Oxygen Species by Combining Velcade and Cisplatin

Kasthuraiah Maddali, Laboratory of Molecular Pharmacology, CCR, NCI

Discovery of Potential Small Molecules That Target HIV-1 Integrase: An Approach to Combat HIV/AIDS

# 2. Carcinogenesis, Cancer Models and Metastasis (Crystal Room A)

Yukiko Hasumi, Urology Oncology Branch, CCR, NCI

Investigating the Role of the BHD Tumor Suppressor Gene *In Vivo*: Early Embryonic Lethality and Increased Incidence of Kidney Tumor in BHD Heterozygous Null Mice

Fang Liu, Surgery Branch, CCR, NCI

Sequential Epigenetic Alterations and Gene Expression Profiles Coincide with Malignant Transformation in Respiratory Epithelia Exposed to Cigarette Smoke

Xiaohong Wang, HIV and AIDS Malignancy Branch, CCR, NCI

Up-regulation of p18Ink4c Expression by Human Papillomavirus Oncoprotein E6 Via p53-miR-34a Pathway

Xu-Yu Yang, Laboratory of Experimental Carcinogenesis, CCR, NCI

DLC1 Binds to S100A10 and Attenuates Plasminogen Activation

Luhua Zhang, Cell and Cancer Biology Branch, CCR, NCI

MR Imaging the Reduction of Angiogenesis and Edema in Brain Metastases from

Anti-angiogenic Treatment

# 3. Epidemiology and Cancer Prevention (Magnolia CD)

Sharon Glynn, Laboratory of Human Carcinogenesis, CCR, NCI

A Mitochondrial Targeting Sequence Polymorphism in the MnSOD Gene Predicts Poor Response and Inferior Survival in Breast Cancer Patients Treated with Cyclophosphamide

Melissa Rotunno, Genetic Epidemiology Branch, DCEG, NCI

Phase I Metabolic Genes and Risk of Lung Cancer: Multiple Polymorphisms and mRNA Expression

Petra Tsuji, Laboratory of Cancer Prevention, CCR, NCI

Sep15 Knockdown Decreases Tumorigenicity and Metastasis of a Colon Cancer Cell Line

Amichai Yavlovich, Nanotechnology Program, CCR, NCI

Light-Sensitive Liposomes for Triggered and Targeted Delivery

Tiffany Wallace, Laboratory of Human Carcinogenesis, CCR, NCI

Identification of a Novel Candidate Prostate Cancer Susceptibility Gene, Phosphoserine Phosphatase Homologue, in African-American Men

#### 4. Cancer Stem Cells, Molecular and Cell Biology (White Room)

Suhwan Chang, Mouse Cancer Genetics Program, CCR, NCI

Control of miR-155 by BRCA1 and its Effect on the ES Cell Differentiation

John Simmons, Laboratory of Cancer Biology and Genetics, CCR, NCI

TUSC1, a Putative Tumor-suppressor Gene in Human Lung Cancer Potentially Functions in Autophagy

Jenna Tong, Pediatric Oncology Branch, CCR, NCI

Hypoxia Stimulates Neuroblastoma Cell Growth and Alters Response of Cells to Retinoid Acid

Marius Doshe, Medicine Oncology Branch, CCR, NCI

A Comparison of the Interaction between the Tyrosine Kinase Inhibitors Imatinib, Nilotinib, and Dasatinib and ABC Transporters

Wei Liu, Laboratory of Comparative Carcinogenesis, CCR, NCI miR-23b\* Targets Proline Oxidase, a p53-induced Cancer Suppressor Protein in Renal Cancer

# 2:30 p.m. **Break**

# 2:45 p.m. Concurrent Highlight Presentations

1. Career Workshop Highlight Presentation: "Careers for the 21st Century" (White Room)

Moderators: Orla Casey, Ph.D. and Krista Zanetti, Ph.D., M.P.H.

# Bobbie Ann Austin, Ph.D.

Assistant Director of Science Policy and Programs
Association for Research in Vision and Ophthalmology

#### Melissa Maderia, Ph.D.

Technology Transfer Specialist NCI Technology Transfer Center

# Neeraja Sathyamoorthy, Ph.D.

Program Director

Tumor Biology and Metastasis Branch, Division of Cancer Biology, NCI

## Nick Zagorski, Ph.D.

Science Writer

American Society for Biochemistry and Molecular Biology

# 2. Highlight Presentation: "Core Facilities at NCI" (Crystal Room A)

Moderators: Matthew Hall, Ph.D.

#### The Advanced Technology Program: Accelerating Scientific Discovery with NCI

Bruce Crise, Ph.D., Director, Business Development, Scientific and Technical Operations and Michael Smith, Ph.D., Director Genetics and Genomics Program, Advanced Technology Program, SAIC-Frederick, Inc.

# The Cancer Biomedical Informatics Grid® (caBIG®): Resources to Support Translational Research

**Todd Hardin, M.S.,** Bioinformatics Specialist **and Donna Messersmith, Ph.D.,** caBIG® Product Representative, SAIC-Frederick, Inc., NCI Center for Biomedical Informatics and Information Technology

## The CCR Confocal Microscopy Core: Overview of Techniques and Applications

Susan Garfield, M.S., Facility Head, Laboratory of Experimental Carcinogenesis, CCR, NCI

## The Office of Science and Technology Partnerships

**David J. Goldstein, Ph.D.,** Associate Director, Office of Science and Technology Partnerships, OD, CCR, NCI

# 4:00 p.m. Career Fair (Red Room)

Refreshments will be served

## **5:45 p.m.** General and Mentored Dinner (Blue Room)

# 7:15 p.m. Postdoctoral Keynote Speaker: "MicroRNAs and Cancer: From Discovery to Their

Potential as Biomarkers and Therapeutic Targets in Cancer"

Aaron Schetter, Ph.D., Laboratory of Human Carcinogenesis, CCR, NCI

8:15 p.m. Poster Session II (Red Room)

Signal Transduction and Gene Transcription Genetics, Genomics, Proteomics, and Bioinformatics

Immunology and Virology

**Clinical and Translational Research** 

10:00 p.m. Adjourn

# Friday, March 20, 2009

7:00 a.m. Continental Breakfast (Great Lobby)

**Registration Open** 

8:00 a.m. Keynote Speaker IV: "Understanding T-Cell Homeostasis in Humans: A Bedside-to-Bench

Approach" (White Room)

Crystal Mackall, M.D., Chief, Pediatric Oncology Branch, CCR, NCI Moderators: Stephanie Watkins, Ph.D. and Jill Ford, Ph.D.

9:00 a.m. Break

9:15 a.m. Concurrent Oral Presentations II (order of presenters is subject to change)

5. Signal Transduction and Gene Transcription (White Room)

Lillian Guenther, Pediatric Oncology Branch, CCR, NCI Investigation of MET Modulation in Osteosarcoma

Jordan Irvin, Gene Regulation and Chromosome Biology Laboratory, CCR, NCI Fidelity of Transcriptional Elongation: Slippage on Homopolymeric Runs in Vivo

Balamurugan Kuppusamy, Laboratory of Cell and Developmental Signaling, CCR, NCI
The Tumor Suppressor Protein C/EBPδ Promotes Hypoxia-inducible Factor-1 Function: An Apparent Paradox

Sara Madanikia, Laboratory of Cancer Biology and Genetics, CCR, NCI Induction of a Smad7 Variant by CLIC4 Overexpression in Keratinoctyes Alters TGF-β Signaling

Thomas Paul, Laboratory of Cell Biology, CCR, NCI Repressive Histone Modifications Combine with DNA Methylation in the Transcriptional Repression of p15INK4b in Acute Myeloid Leukemia

# **6.** Genetics, Genomics, Proteomics and Bioinformatics (Crystal Room A)

Allison Burrell, Laboratory of Translational Genomics, DCEG, NCI Translational and Genetic Studies on JazF1 in Prostate Cancer

Robert Hudson, Laboratory of Human Carcinogenesis, CCR, NCI Transcripts Encoded by Ultraconserved Regions Are Altered in Prostate Cancer Xiao Hui Tan, Basic Research Laboratory, CCR, NCI

Molecular Cloning of a Translocation of Chromosomes 9 and 22 in a Patient with Melanomas and Deafness

Ryan Virden, Pediatric Oncology Branch, CCR, NCI

Structure-Function Analyses of the Neuroblastoma Tumor Suppressor Gene CASZ1

Yi Wang, HIV Drug Resistance Program, CCR, NCI

Direct Probing of RNA Transport Element Structures by SHAPE, Solution X-ray Scattering and 3D Mass Spectrometry

#### 7. Immunology and Virology (Magnolia AB)

Masaya Baba, Urologic Oncology Branch, CCR, NCI

FNIP1 Inactivation In Vivo Leads to B-cell Developmental Defects

Nicolas Cuburu, Laboratory of Cellular Oncology, CCR, NCI

Genital Immunization with HPV Pseudovirions Induces Genital CD8+ T Cells

Pawel Muranski, Surgery Branch, CCR, NCI

Th17-polarized CD4+ Cells Engineered to Express MHC Class II Restricted T-Cell Receptor Eradicate Established Tumor

Kimberly Shafer-Weaver, Laboratory of Cell-Mediated Immunity, SAIC-Frederick, Inc.

Prostatic Tumors Induce CD8+ T Cells to Become Suppressor Cells

Stephanie Watkins, Laboratory of Molecular Imaging, CIP, CCR, NCI

Modulation of APC Function and Phenotype Delays Tolerization of Tumor-Specific T Cells

# 8. Clinical and Translational Research (Magnolia CD)

Jack Higgins, Laboratory of Tumor Immunology and Biology, CCR, NCI

Harnessing the Unique Properties of a Replication Defective Vaccinia Virus to Generate Superior Immune Responses and Antitumor Activity in a Diversified Prime and Boost Vaccine Regimen

Brie-Anne Kohrt, Pediatric Oncology Branch, CCR, NCI

Youth-identified Barriers to Transitioning from Pediatric to Adult Care: A Qualitative Analysis

Gabriela Kramer-Marek, Radiation Oncology Branch, CCR, NCI

Quantification of HER2 Degradation Following 17-DMAG Treatment by Small-animal PET Imaging

Patricia Tsang, Pediatric Oncology Branch, CCR, NCI

High-throughput siRNA Screening Identifies NF- $\kappa B$  as a Target for Combination Therapy in Neuroblastoma

Amanda Walker, Medical Oncology Branch, CCR, NCI

Phase II Study of Clinical Activity and Translational Endpoints of the VEGFR2 Inhibitor Vandetanib in Women with Relapsed or Refractory Epithelial Ovarian, Fallopian Tube, or Primary Peritoneal Cancer

#### 10:45 a.m. Break

# 11:00 a.m. Concurrent Workshops II

# 9. "Getting from the Bench to the Bedside" (White Room)

Jerry M. Collins, Ph.D., Head, Developmental Therapeutics Program, DCP, NCI Phyllis Frosst, Ph.D., Head, Program Analysis Branch, NHGRI James Inglese, Ph.D., Deputy Director, NIH Chemical Genomics Center, NHGRI Wendy C. Weinberg, Ph.D., Senior Investigator, U.S Food and Drug Administration, Rockville, Maryland

Moderators: Leslie Chinn, Ph.D. and Michaela Wendeler, Ph.D.

## **10.** "Effective Publishing Strategies" (Crystal Room A)

"How to get Published in Scientific Journals and Measuring Journal and Research Prestige" Simone Groothuis, M.Sc., Publishing Editor, Cell Biology International, Elsevier Publishing, Amsterdam. The Netherlands

## "Scientific Publication: A Matter of Life and Death"

**Dan L. Longo, M.D.,** Scientific Director, National Institute on Aging, NIH Moderators: Matthew Hall, Ph.D. and Orla Casey, Ph.D.

12:30 p.m. Mentored and General Lunch with Travel Awards (Nigerian Room)

1:45 p.m. Questionnaire and Closing Comments from the Retreat Committee

2:00 p.m. Adjourn

# 2009 CCR Fellows and Young Investigators Retreat Travel Award Winners

Congratulations!
Eight \$1,000 Travel Awards
Sponsored by the CCR Office of the Director

# **Outstanding Oral Presentations**

Luhua Zhang Kimberly A. Shafer-Weaver Tiffany A. Wallace Patricia and S. Tsang

# **Outstanding Poster Presentations**

Adam Cheuk Asako Nakamura Maria Ana Duhagon Serrat Sam Hong